

Figure 1: Sample present invention deployment across data centers

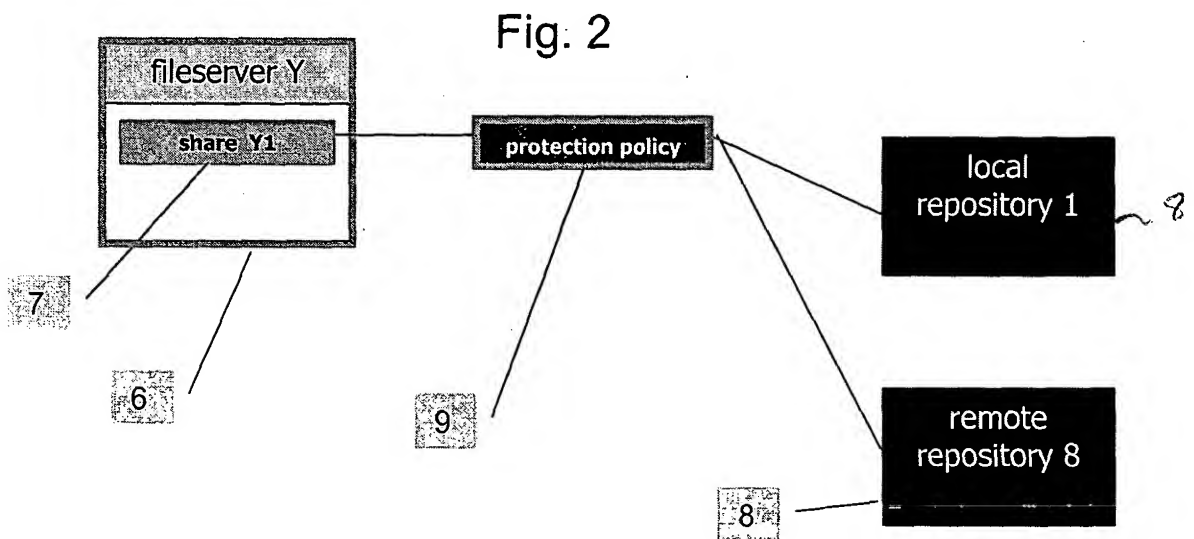


Figure 2: Association between fileserver shares and their repositories via protection policies

Fig. 3

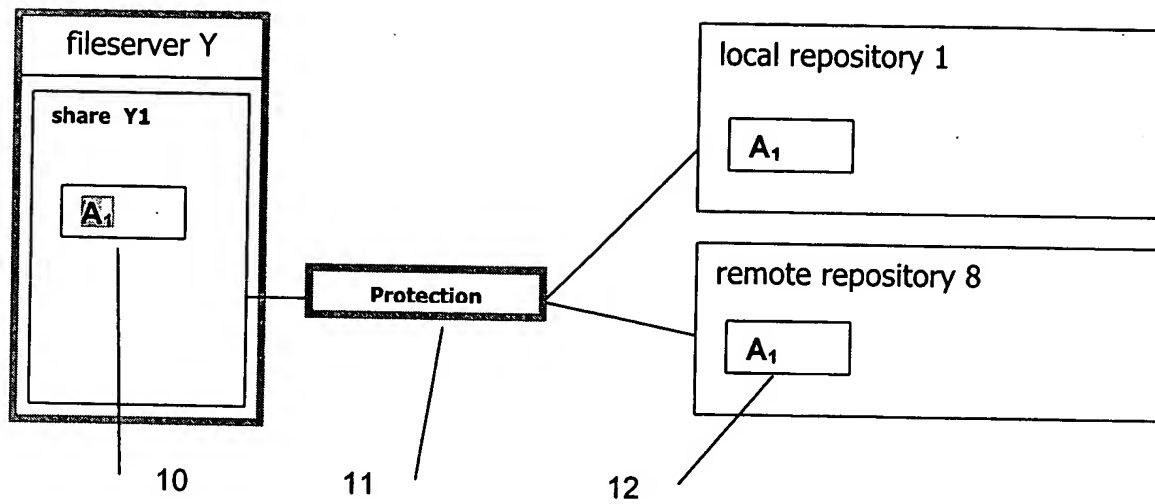


Figure 3: Replication

Fig. 4

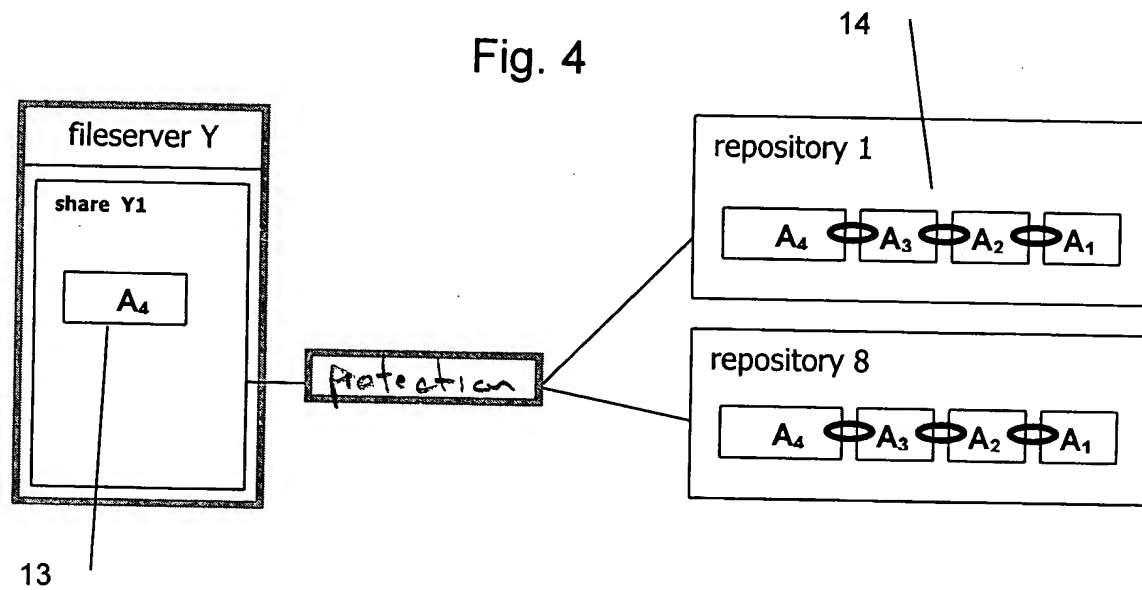


Figure 4: Versioning

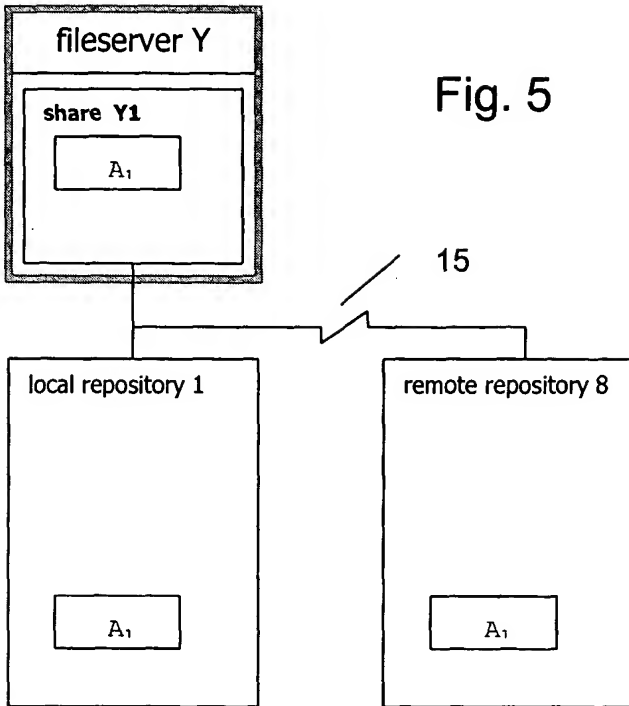


Fig. 5

Figure 5 - Remote Replication with Delta Compression - Step 1

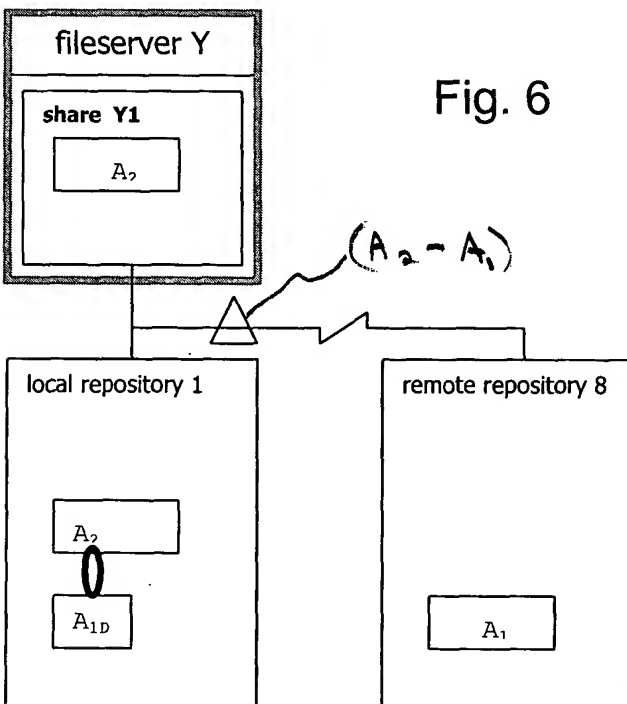


Fig. 6

Figure 6 - Remote Replication with Delta Compression - Step 2

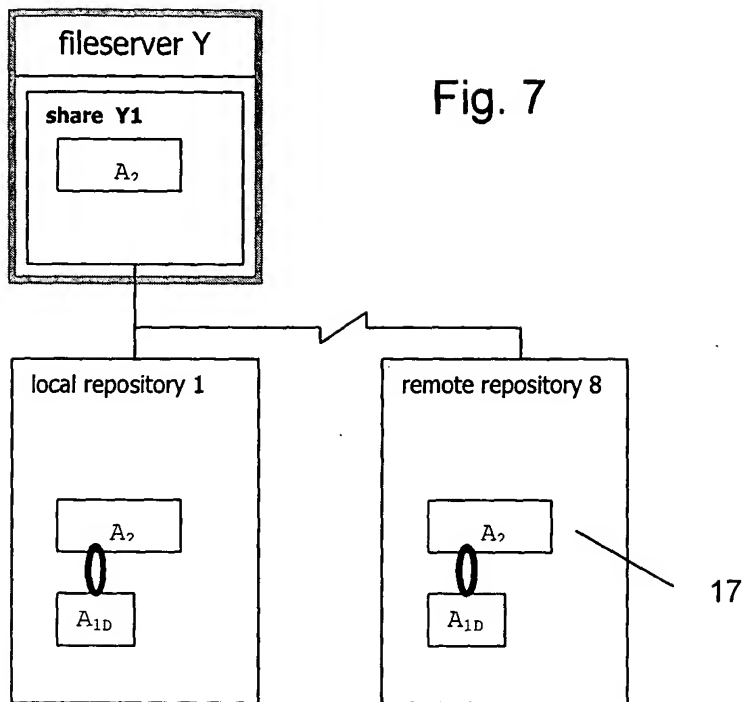


Figure 7- Remote Replication with Delta Compression - Step 3

Fig. 8

The image shows a software window for configuring a protection policy. On the left is a sidebar with a tree view containing the following items: **General**, **CIFS Sharing**, **NFS Sharing**, **FTP Sharing**, and **Protection Policy**. The **Protection Policy** item is selected. To the left of this sidebar, there are six numbered boxes (18-26) with lines pointing to specific parts of the sidebar: 18 points to **CIFS Sharing**, 19 points to **NFS Sharing**, 20 points to **FTP Sharing**, 21 points to **Protection Policy**, 22 points to **Protection Policy**, 23 points to **Protection Policy**, 24 points to **Protection Policy**, 25 points to **Protection Policy**, and 26 points to **Protection Policy**.

The main area of the window is divided into several sections:

- Policy Identification**:
 - Share: GP_Marketing/Marcom2
 - Protect this share: ☒
 - Protection Policy Name:
 - Description:
 - User Data:
- Protection Management**:
 - Backup Frequency:
 - Replicas: ☒ Replicas in
 - ☒ Replicas in
 - ☒ Replicas in
- Version Management**:
 - Keep Version History: ☒
 - Version Compression:
 - Version Compaction:
 - ☒ Keep only one daily version after days
 - ☒ Keep only one weekly version after weeks
 - ☒ Keep only one monthly version after months
 - ☒ Keep only one version after years
- Advanced Options** :
 - ☒ Purge all versions of files that are deleted from this share days after they are deleted.
 - Caching Level:

Fig 8. The present invention's protection policy

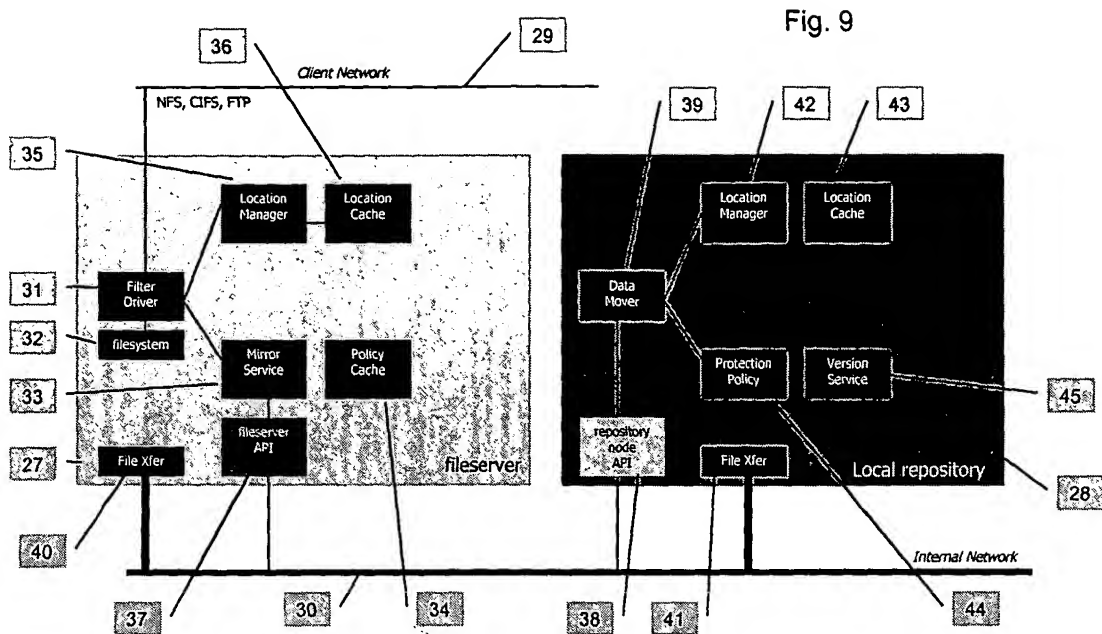


Fig 9. Apparatus and modules used to protect data to a local repository

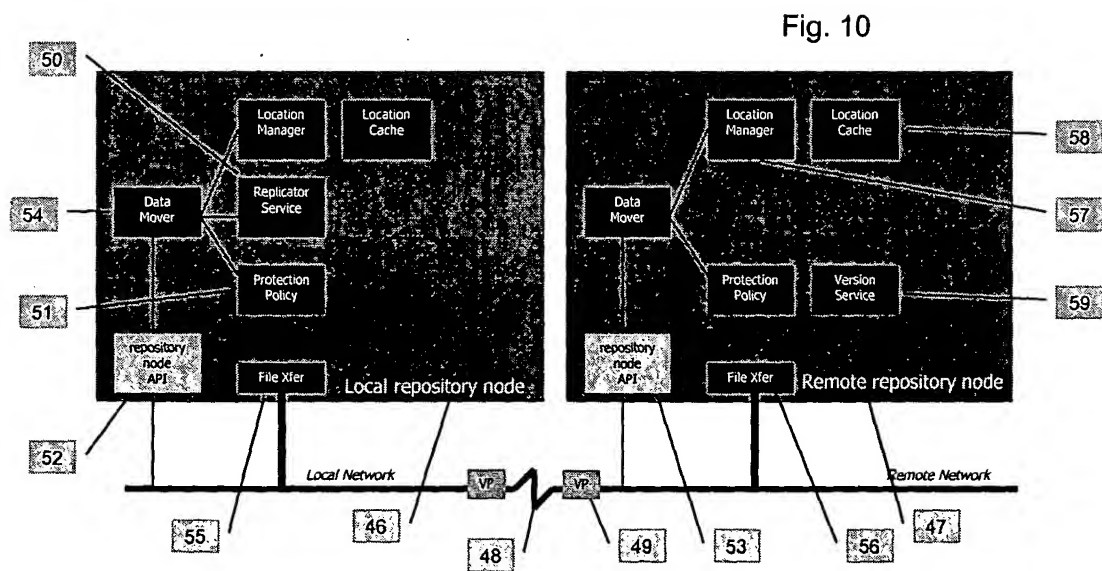


Fig 10. Inter-repository replication